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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/708,378	02/27/2004	Huilong Zhu	FIS920030371US1	2377	
30743	7590 10/18/2005		EXAMINER		
WHITHAM	1, CURTIS & CHRISTOF	NGO, NGAN V			
11491 SUNS SUITE 340	SET HILLS ROAD		ART UNIT	PAPER NUMBER	
RESTON, V	VA 20190 2818		2818		
			DATE MAILED: 10/18/200:	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Ap	plication No.	Applicant(s)	
	10)/708,378	ZHU ET AL.	•
Office Action Summa	ary Ex	aminer	Art Unit	
	Ng	an Ngo	2818	· .
The MAILING DATE of this co Period for Reply	ommunication appears	on the cover sheet	with the correspondence addres	ss
A SHORTENED STATUTORY PER WHICHEVER IS LONGER, FROM - Extensions of time may be available under the pafter SIX (6) MONTHS from the mailing date of - If NO period for reply is specified above, the ma - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	THE MAILING DATE provisions of 37 CFR 1.136(a). this communication. eximum statutory period will apple for reply will, by statute, cause months after the mailing date	OF THIS COMMUN In no event, however, may ply and will expire SIX (6) MG e the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).	
Status				
1) Responsive to communication	n(s) filed on 16 Augus	st 2005.		
2a)⊠ This action is FINAL .	2b) ☐ This acti			
3) Since this application is in co- closed in accordance with the		•	atters, prosecution as to the me .D. 11, 453 O.G. 213.	erits is
Disposition of Claims				
4) ⊠ Claim(s) <u>1-20</u> is/are pending 4a) Of the above claim(s) <u>16-3</u> 5) ☐ Claim(s) is/are allowed 6) ⊠ Claim(s) <u>1-5,10,11 and 15</u> is/ 7) ⊠ Claim(s) <u>6-9 and 12-14</u> is/are 8) ☐ Claim(s) are subject to	20 is/are withdrawn fro d. are rejected. objected to.			
Application Papers				•
9)☐ The specification is objected t	o by the Examiner.			
10) The drawing(s) filed on	• • • • •	• •	-	
Applicant may not request that a		• • • • • • • • • • • • • • • • • • • •		
Replacement drawing sheet(s) in 11) The oath or declaration is objection.	=		ng(s) is objected to. See 37 CFR 1 led Office Action or form PTO-	
Priority under 35 U.S.C. § 119				
 ·	ne of: priority documents hat priority documents hat copies of the priority of ternational Bureau (Po	ve been received. ve been received in locuments have bee CT Rule 17.2(a)).	Application No en received in this National Sta	nge
Attachment(s) 1) \(\bigcup \) Notice of References Cited (PTO-892) 2) \(\bigcup \) Notice of Draftsperson's Patent Drawing F	Review (PTO-948)		w Summary (PTO-413) lo(s)/Mail Date	
Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date			of Informal Patent Application (PTO-15	2)

The amendment filed August 16, 2005 has been entered and made of record as paper no. 0805.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, and 11 stand rejected under 35 U.S.C. 102(b) as being anticipated by Krivokapic et al.

Krivokapic discloses a field effect transistor comprising a gate structure (42) and a discontinuous film (30) of material within layer of semiconductor material (14) and having a discontinuity aligned with the gate structure.

In re claim 2, Krivokapic also discloses the self-aligned method but no patentable weight is given to the method of making a semiconductor device in claims drawn to structure. A "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17(footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); In re Marosi et al, 218 USPQ 289; and particularly In re Thorpe, 227 USPQ 964, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a

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product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above caselaw makes clear.

In re claims 3 and 4, the insulator film (30) in Krivokapic can inherently be a stressed film.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 10 and 15 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Krivokapic et al in view of Bae.

Krivokapic discloses all the subject matter discussed above. However, Krivokapic does not disclose about void formed in the semiconductor material. Bae disclose a field effect transistor having void (35) formed in the semiconductor material to suppress floating body effects. Note that void is also formed in porous silicon 23b in Bae.

Therefore, it would have been obvious to one of ordinary skill in the art to form void in the semiconductor material in Krivokapic in order to suppress floating body effects as taught by Bae.

Claims 6-9, 12, 13 and 14 stand objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's arguments filed August 16, 2005 have been fully considered but they are not persuasive.

Six Pages of arguments has nothing to do with what is claimed. Applicants failed to show the difference in structure between claim 1 as shown in figure 1 of applicants' device and figures 5a and 6 of Krivokapic.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Nigen Van Ngo Primary Examiner

Ngan Ngo

October 16, 2005